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(54) Title: POLYMERIC FOAM COMPOSITES THAT MEET FACTORY MATERIAL 4880 REQUIREMENTS

(57) Abstract: Polymeric foam composites (PFCs) containing a polyurethane or polyisocyanurate foam can pass both ceiling and wall portions of the United Building Code 26-3 Room Corner Burn Test and can meet requirements for Factory Mutual 4880 approval. Polymeric foam composites of the present invention have a front face with an exposed metal sheet. Polymeric foams in the PFCs contain at least 4 weight-percent halogen, at least 10 percent of which comes from a highly-halogenated compound, at least 0.25 weight-percent phosphorous, and a residual blowing agent composition that contains less than 50 weight-percent chlorofluorocarbons and hydrochlorofluorocarbons. The polymeric foam also contains flame-retarding fibers at an average concentration of at least one weight-percent, based on combined foam and fiber weight, within 0.125 inches (3.2 millimeters) of the foam's front surface.

WO 2004/026948 A2